

48. (New) A method of diagnosing breast cancer in a patient, the method comprising:

(i) obtaining a biological sample from a patient
(ii) detecting the level of a polynucleotide encoding a BCH1 polypeptide in the sample, wherein the polynucleotide is at least 75% identical to the nucleic acid sequence disclosed in SEQ ID NO:23.

49. (New) The method of claim 48, wherein the polynucleotide is at least 95% identical to SEQ ID NO:23.

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50. (New) The method of claim 48, wherein the sample is a tissue sample.

51. (New) The method of claim 50, wherein the tissue sample is breast tissue.

52. (New) The method of claim 48, wherein the sample comprises isolated nucleic acids.

53. (New) The method of claim 52, wherein the nucleic acids are mRNA.

54. (New) The method of claim 48, wherein the polynucleotide is SEQ ID NO:23.

55. (New) The method of claim 48, wherein the polynucleotide is labeled.